

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-74357-1 Client Project/Site: Everett Terminal

For:

ExxonMobil Company USA PO BOX 874 Joliet, Illinois 60434

Attn: Jason Pociask

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Authorized for release by: 3/20/2015 5:42:12 PM

Gail Lage, Senior Project Manager (615)301-5741 gail.lage@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ExxonMobil Company USA Project/Site: Everett Terminal

TestAmerica Job ID: 490-74357-1

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Sample Summary

Client: ExxonMobil Company USA Project/Site: Everett Terminal

TestAmerica Job ID: 490-74357-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-74357-1	Outfall 01 A-TSS - 1	Water	03/14/15 12:25	03/17/15 08:35
490-74357-4	Outfall 01 A	Water	03/14/15 12:25	03/17/15 08:35

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Case Narrative

Client: ExxonMobil Company USA Project/Site: Everett Terminal

TestAmerica Job ID: 490-74357-1

Job ID: 490-74357-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-74357-1

Receipt

The samples were received on 3/17/2015 8:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

General Chemistry

Method(s) SM 2540D: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with batch 234273.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: ExxonMobil Company USA Project/Site: Everett Terminal

TestAmerica Job ID: 490-74357-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ExxonMobil Company USA Project/Site: Everett Terminal

TestAmerica Job ID: 490-74357-1

Client Sample ID: Outfall 01 A-TSS - 1

Lab Sample ID: 490-74357-1

Date Collected: 03/14/15 12:25 Date Received: 03/17/15 08:35 Matrix: Water

	General Chemistry									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total Suspended Solids	4.40		1.10	0.769	mg/L			03/17/15 15:33	1

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Client Sample Results

Client: ExxonMobil Company USA Project/Site: Everett Terminal

TestAmerica Job ID: 490-74357-1

Client Sample ID: Outfall 01 A

Lab Sample ID: 490-74357-4

Matrix: Water

Date Collected: 03/14/15 12:25 Date Received: 03/17/15 08:35

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.43		4.09	1.43	mg/L		03/18/15 10:57	03/18/15 10:57	1

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TestAmerica Job ID: 490-74357-1

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Prep Batch: 234496

Client: ExxonMobil Company USA Project/Site: Everett Terminal

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 490-234496/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 234502

Prep Batch: 234496 мв мв

Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed 4.00 03/18/15 10:57 Oil & Grease (HEM) <1.40 1.40 mg/L 03/18/15 10:57

Lab Sample ID: LCS 490-234496/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 234502 Prep Batch: 234496

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits 41.7

Lab Sample ID: LCSD 490-234496/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

35.94

mg/L

Matrix: Water

Oil & Grease (HEM)

Analysis Batch: 234502 Prep Batch: 234496 Spike LCSD LCSD RPD %Rec. Added Result Qualifier Unit D %Rec Limits **RPD** Limit Oil & Grease (HEM) 41.7 36.35 mg/L

Lab Sample ID: 490-74357-4 MS Client Sample ID: Outfall 01 A Prep Type: Total/NA

Matrix: Water

Analysis Batch: 234502

Sample Sample Spike MS MS %Rec. Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits <1.43 46.5 Oil & Grease (HEM) 36.63 mg/L 79 78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-234273/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 234273

MB MB RL Result Qualifier MDL Unit Prepared Dil Fac Analyte Analyzed Total Suspended Solids <0.700 1.00 0.700 mg/L 03/17/15 15:33

Lab Sample ID: LCS 490-234273/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 234273

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits **Total Suspended Solids** 100 101.4 mg/L 101 90 - 110

Lab Sample ID: LCSD 490-234273/3 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 234273

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Total Suspended Solids 100 100.8 mg/L 101 90 - 110

TestAmerica Nashville

3/20/2015

QC Association Summary

Client: ExxonMobil Company USA Project/Site: Everett Terminal

TestAmerica Job ID: 490-74357-1

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General Chemistry

Analysis Batch: 234273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-74357-1	Outfall 01 A-TSS - 1	Total/NA	Water	SM 2540D	
LCS 490-234273/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 490-234273/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
MB 490-234273/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 234496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-74357-4	Outfall 01 A	Total/NA	Water	1664A	_
490-74357-4 MS	Outfall 01 A	Total/NA	Water	1664A	
LCS 490-234496/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 490-234496/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 490-234496/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 234502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-74357-4	Outfall 01 A	Total/NA	Water	1664A	234496
490-74357-4 MS	Outfall 01 A	Total/NA	Water	1664A	234496
LCS 490-234496/2-A	Lab Control Sample	Total/NA	Water	1664A	234496
LCSD 490-234496/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	234496
MB 490-234496/1-A	Method Blank	Total/NA	Water	1664A	234496

TestAmerica Nashville

Lab Chronicle

Client: ExxonMobil Company USA Project/Site: Everett Terminal

Client Sample ID: Outfall 01 A-TSS - 1

TestAmerica Job ID: 490-74357-1

Lab Sample ID: 490-74357-1

Matrix: Water

Date Collected: 03/14/15 12:25 Date Received: 03/17/15 08:35

Batch Dil Initial Final Batch Prepared Batch Prep Type Method Type Run Factor Amount **Amount** Number or Analyzed Analyst Lab Total/NA Analysis SM 2540D 910 mL 1000 mL 234273 03/17/15 15:33 CRM TAL NSH

Client Sample ID: Outfall 01 A Lab Sample ID: 490-74357-4

Date Collected: 03/14/15 12:25 Matrix: Water

Date Received: 03/17/15 08:35

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	1664A		1	940 mL	960 mL	234502	03/18/15 10:57	BAD	TAL NSH
Total/NA	Prep	1664A			940 mL	960 mL	234496	03/18/15 10:57	BAD	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: ExxonMobil Company USA Project/Site: Everett Terminal

TestAmerica Job ID: 490-74357-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	TAL NSH
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH

Protocol References:

1664A = EPA-821-98-002

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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TestAmerica Job ID: 490-74357-1

Client: ExxonMobil Company USA Project/Site: Everett Terminal

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-15
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	10-31-15
Arizona	State Program	9	AZ0473	05-05-15
Arkansas DEQ	State Program	6	88-0737	04-25-15
California	State Program	9	2938	10-31-16
Connecticut	State Program	1	PH-0220	12-31-15
Florida	NELAP	4	E87358	06-30-15
Illinois	NELAP	5	200010	12-09-15
lowa	State Program	7	131	04-01-16
Kansas	NELAP	7	E-10229	03-31-15 *
Kentucky (UST)	State Program	4	19	06-30-15
Kentucky (WW)	State Program	4	90038	12-31-15
Louisiana	NELAP	6	30613	06-30-15
Maryland	State Program	3	316	03-31-16
Massachusetts	State Program	1	M-TN032	06-30-15
Minnesota	NELAP	5	047-999-345	12-31-15
Mississippi	State Program	4	N/A	06-30-15
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-15
New Hampshire	NELAP	1	2963	10-09-15
New Jersey	NELAP	2	TN965	06-30-15
New York	NELAP	2	11342	03-31-15
North Carolina (WW/SW)	State Program	4	387	12-31-15
North Dakota	State Program	8	R-146	06-30-15
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-15
Oregon	NELAP	10	TN200001	04-27-16
Pennsylvania	NELAP	3	68-00585	06-30-15
Rhode Island	State Program	1	LAO00268	12-30-15
South Carolina	State Program	4	84009 (001)	02-28-15 *
South Carolina (DW)	State Program	4	84009 (002)	02-23-17
Tennessee	State Program	4	2008	02-23-17
Texas	NELAP	6	T104704077	08-31-15
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-15
Virginia	NELAP	3	460152	06-14-15
Washington	State Program	10	C789	07-19-15
West Virginia DEP	State Program	3	219	02-28-16
Wisconsin	State Program	5	998020430	08-31-15
Wyoming (UST)	A2LA	8	453.07	12-31-15

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^{*} Certification renewal pending - certification considered valid.





COOLER RECEIPT FORM

Cooler Received/Opened On 3/17/2015 @ 0835	
1. Tracking #(last 4 digits, FedEx)	
Courier: Fed-ex IR Gun ID 97310166	
2. Temperature of rep. sample or temp blank when opened:	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?	YES NO. NA
4. Were custody seals on outside of cooler?	YES, NONA
If yes, how many and where:	
5. Were the seals intact, signed, and dated correctly?	YES, .NONA
6. Were custody papers inside cooler?	YES)NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	Los
7. Were custody seals on containers: YES MO and Intact	YESNONA
Were these signed and dated correctly?	YESNO (NA)
8. Packing mat'l used? (Subblewra) Plastic bag Peanuts Vermiculite Foam Insert Paper	
9. Cooling process: (Ce) Ice-pack (ce (direct contact) Dry ice	Other None
10. Did all containers arrive in good condition (unbroken)?	(ES)NONA
11. Were all container labels complete (#, date, signed, pres., etc)?	(ES).NONA
12. Did all container labels and tags agree with custody papers?	(ES)NONA
13a. Were VOA vials received?	YES(10)NA
b. Was there any observable headspace present in any VOA vial?	YESNO. MA
14. Was there a Trip Blank in this cooler? YESNO	
Lertify that I unloaded the cooler and answered questions 7-14 (intial)	MDM
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?	YESNO
b. Did the bottle labels indicate that the correct preservatives were used	YESNO(NA)
16. Was residual chlorine present?	YESNO
Learnify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	- MADAN
17. Were custody papers properly filled out (ink, signed, etc)?	YES)NONA
18. Did you sign the custody papers in the appropriate place?	ESNONA
19. Were correct containers used for the analysis requested?	XESNONA
20. Was sufficient amount of sample sent in each container?	(FES)NONA
certify that I entered this project into LIMS and answered questions 17-20 (intial)	www
I certify that I attached a label with the unique LIMS number to each container (intial)	MDM
21. Were there Non-Conformance issues at login? YES	1 9#

Nashville Division 2960 Foster Creighton

Toll Free: 800-765-0980 Phone: 615-726-0177

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telinquished by:		(41/1)	Relinquished by:		tandard protocol,	comments/Special Instructions:			Outfall 01 A	Outfall 01 A-TSS - 3	Outfall 01 A-TSS - 2	Outfall 01 A-TSS - 1	Monthly 1st Rain			Sampler Signature:	Consultant Telephone Number: 617-381-2802		Consultant Project Mg	ExxonMobil Project Mgr. Jason Pociask	Addres City/State/Zi	Consultant Nam	THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN 37204	TestAmerica
Date	3	3.11.2015	Date			:			K			3.14.15 1225	Date Sampled Time Sampled		0	e: All of the	r: 617-381-2802		r: Triumvirate - Sandra	r: Jason Pociask	City/State/Zip: Everett, MA 02149	Consultant Name: ExxonMobil Everett Terminal	L TESTING Nashv	
Time		1600	Time						2 ×	1 ×	ı,	-1 ×	No. of Containers Shipped)			a Perry (Call Vis	ļ		Terminal	rille, TN 37204	2960 Foster Creighton
Received by To	1		Received by:					 					Composite Field Flitered						oth at (617) 799 -					'n
estAmerica:	July X Tan	٥ ڏ							×				Methanol Sodium Bisulfate HCI (Blue Label) NaOH (Orange Label) H ₂ SO ₄ Plastic (Yellow Label) H ₂ SO ₄ Glass(Yellow Label) HNO ₃ (Red Label)	Perservative			Fax No.: 617-381-2954		Consultant Project Mgr: Triumvirate - Sandra Perry (Call Visoth at (617) 799 - 4357 for sample related questions)	}			Fax: 615-726-3404	Toll Free: 800-765-0980
Date	5		Date	-			- North Total		 ×	x	x	×	None (Black Label) Groundwater Wastewater Drinking Water Sludge Soil Other (specify):	Matrix		Regulato			estions)				6-3404	5-0980
Time	88	1	Time						×	inalysis	nalysis	×	TSS SM 2540D Oil & Grease - EPA 1664	Monthly	Š	Regulatory District (CA)	Site Address SAME	Facility ID#	PROJECT #	TO#	Report To:	TA Account #:		
mager Flow (MGD). ntted: TRC TRC	e the responsibility of ExxonMobil or its	Level 2 Level 3 Level 4 Other	QC Deliverables (please circle one)	VOCs Free of Headspace?	, 10 c	Laboratory Comments:			10	1 L Plastic	1 L Plastic	1 L Plastid X \ 1	RUSH TAT (Pre-Schedule) * TAT request (in Bus. Days)	14			s SAME	Facility ID # Spirit Sp	TOTAL	t mental the control of the control	Report To: sperry@triumvirate.com; iason.e.pociask@exxonmobil.com	The state of the s	4	EXONNODII
3.4	j.	Ę		zz	Z								Fax Results (yes or no)					 	Ama XIII			;		

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Prepared vsreng 01A

Login Sample Receipt Checklist

Client: ExxonMobil Company USA Job Number: 490-74357-1

Login Number: 74357 List Source: TestAmerica Nashville

List Number: 1 Creator: McBride, Mike

Creator: McBride, Mike		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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